#### PATENT COOPERATION TREATY

#### **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D U 3 FEB 2006

		WIFO PCT				
Applicant's or agent's file reference PC26188A	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/IB2005/000258	International filing date (day/month/year) 01.02.2005	Priority date (day/month/year) 11.02.2004				
International Patent Classification (IPC) or national classification and IPC C07C235/48, C07D309/06, C07D231/14, C07D213/82, C07D263/58, A61K31/423, A61K31/166, A61K31/351, A61K31/415, A61K31/44, A61P25/16, A61P25/28						
Applicant PFIZER JAPAN, INC. et al.						
, and an arm train	iminary examination report, established by smitted to the applicant according to Articl	v this International Preliminary Examining e 36.				
2. This REPORT consists of a total or	f 6 sheets, including this cover sheet.					
<ol><li>This report is also accompanied by</li></ol>	ANNEXES, comprising:	S.				
a. $\square$ sent to the applicant and to	the International Bureau) a total of sheet	s, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
This report contains indications relating to the following items:						
⊠						
	on .	ŧ				
☐ Box No. IV Lack of unity of in	nt of opinion with regard to novelty, invention	ve step and industrial applicability				
applicability; citation	ent under Article 35(2) with regard to nove ons and explanations supporting such stat	elty, inventive step or industrial				
☐ Box No. VI Certain documents		Silon				
☐ Box No. VII Certain defects in	the international application					
☑ Box No. VIII Certain observatio	Box No. VIII Certain observations on the international application					
Date of submission of the demand	Date of					
	Date of completion of	mis report.				
17.03.2005	01.02.2006	٠.				
Name and mailing address of the international preliminary examining authority:	Authorized Officer					
European Patent Office						
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d  Grammenoudi, S						
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### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000258

	Box No.	. I Basis of the report			
1.	With regard to the <b>language</b> , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
	which □ in □ pu	s report is based on translations from the original language ch is the language of a translation furnished for the purpose international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4 international preliminary examination (under Rules 55.2 and	es of:		
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Descriptio	ion, Pages			
	1-204	as originally filed			
	Claims, N	Numbers	10		
	1-20	as originally filed			
	☐ a sec	equence listing and/or any related table(s) - see Supplemen	ntal Box Relating to Sequence Listing		
3.	☐ the ☐ the ☐ the ☐ the ☐ the	amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):			
4.	had not be Suppleme I the I the I the I the I ar	s report has been established as if (some of) the amendme been made, since they have been considered to go beyond nental Box (Rule 70.2(c)). The description, pages the claims, Nos. The drawings, sheets/figs the sequence listing (specify): The sequence listing (specify):	the disclosure as filed, as indicated in the		
	* If i	item 4 applies, some or all of these sheets	may ve marked "superseded."		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000258

F	Box No. III Non-establishment of oninion with regard to nevel to investigate in the state of the					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. T	. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application,					
×	claims Nos. 18,19					
	because:					
×	the said international application, or the said claims Nos. 18,19 relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the said claims Nos.					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
	İ		does not comply with the standard			
	the tables related to the nucleotic not comply with the technical req	tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further de	tail	s .			

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000258

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-20

No: Claims

Inventive step (IS)

Yes: Claims

1-20

No: Claims

Industrial applicability (IA)

Yes: Claims

1-17,20

No: Claims

18,19

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2005/000258

D1= WO-A-02/80928

SECTION III

1. For the assessment of present claims 18 and 19 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting Sates. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

#### SECTION V

- The present application relates to amide derivatives, their use and compositions comprising them.
- 2. Document D1 cited in the description on page 2, second paragraph is considered to represent the closest state of the art. It discloses N-substituted nonaryl heterocycloamidyl compounds of formula I which act as antagonists of the NR2B sub-unit of N-methyl-D-aspartate ("NMDA") receptors and are useful for relieving pain (see D1, claim 1, page 31, lines 5-17). The problem to be solved by the present application with respect to this prior art is to provide alternative NMDA NR2B an-tagonists.
- 3. The compounds according to present claim 1 differ from the known nonaryl heterocycloamidyl derivatives in that ring members A and B do not represent nitrogen. There is no teaching in the art which would have prompted the skilled person to contemplate such a structural modification of the compounds according to D1 in order to obtain further NMDA NR2B antagonists.

Accordingly, the subject-matter of claim 1 as well as that of claim 14 (pharmaceu-tical compositions including compounds of claim 1), 15 (compounds of claim 1 for use as medicaments), 16 (use of compounds of claim 1 for the manufacture of medicaments to treat a disease), 18 (methods of treating mammals with com-pounds of claim 1)

and 20 (combinations comprising compounds of claim 1 with other pharmaceutically active agents) meets the requirements of Article 33(2) and (3) PCT.

4. Claims 2-13, 17 and 19 concern particular embodiments of claims 1, 16 and 18 respectively. Thus, they also fulfil the criteria of Art. 33(2) and (3) PCT.

#### **SECTION VIII**

- 1. The term "about" in connection with ranges (cf. page 31, lines 11-13) as well as the phrase "or the like" (cf. page 1, line 10; page 15, line 7 and page 30, last para-graph) render the scope of the application unclear (Art. 6 PCT).
- 2. The number 0208928 on page 2, line 5 is obviously incorrect and should have been replaced by 02080928 (cf. D1) in order to establish clarity (Art. 6 PCT).